

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-74, and insert new claims 75-94, as follows:

1-74. (Canceled)

75. (New) A medical treatment system, comprising:

an insertion device having a proximal end and a distal end, wherein the insertion

device is configured for insertion into a body opening and comprising positioning

means for positioning an energy transmitting device proximate a target area in the

body;

an energy source located at the proximal end of the insertion device; and

an energy transmitting device located at the distal end of the insertion device and

comprising at least one antenna wherein the antenna directs energy generated by the energy

source to the target area to heat the target area to a temperature greater than about 50°C, wherein

a distally located portion of the insertion device is adjusted to maintain proper placement of the

energy transmitting device in relation to the target area and the energy transmitting device is

communicably connected to the energy source through the insertion device.

76. (New) The device of claim 75, wherein the at least one antenna includes an RF antenna.

77. (New) The device of claim 75, wherein the at least one antenna includes a microwave antenna.

78. (New) The device of claim 75, wherein the at least one antenna includes a directional RF antenna.
79. (New) The device of claim 78, wherein the directional RF antenna is a microwave antenna.
80. (New) The device of claim 75, wherein the energy transmitting device comprises a portion which extends radially away from the insertion device.
81. (New) A medical treatment system, comprising:
an insertion device having a proximal end and a distal end, wherein the insertion device is configured for insertion into a body opening and comprising positioning means for positioning an energy transmitting device proximate a target area in the body;
an energy source located at the proximal end of the insertion device;
an energy transmitting device located at the distal end of the insertion device and comprising at least one antenna wherein the antenna directs energy generated by the energy source to the target area to heat the target area to a temperature greater than about 50°C for a time period of between about 1 microsecond to 1 minute to change a state of collagen in tissue at the target area, the energy transmitting device is communicably connected to the energy source through the insertion device; and
positioning means associated with the insertion device to aid in proper positioning of the distal end relative to the target area.

82. (New) The device of claim 81, wherein a distally located portion of the insertion device is adjusted using an observation and control piece to maintain proper placement of the energy transmitting device in relation to the target area.
83. (New) The device of claim 82, further comprising a fiber optic cable at the distal end of the insertion device communicably connected to an eye piece at the proximal end of the insertion device.
84. (New) The device of claim 81, wherein the structure for positioning comprises an expandable structure adapted to prevent dissipation of heat generated in the target area by compressing the target area.
85. (New) The device of claim 81, wherein the energy transmitting device comprises a structure suitable for causing collagen shrinkage in the target area.
86. (New) The device of claim 83, wherein the energy transmitting device comprises a plurality of antenna positioned upon the outer or inner surface of the expandable structure.
87. (New) The device of claim 81, wherein the energy transmitting device comprises at least one antenna for directing energy generated by the energy source to an area of tissue including the target area to heat the target area to a temperature of between 63° and 65°C.

88. (New) A medical treatment system, comprising:

an insertion device having a proximal end and a distal end, wherein the insertion device is configured for insertion into a body opening and comprising an expandable positioning structure for positioning at least one energy transmitting device proximate a target area in the body;

a material used in the insertion device to dissipate heat from an outer layer of tissue of the target area, the material dissipates heat and maintains a safe temperature of the outer layer of tissue of the target area while changing a state of collagen in a middle layer of tissue of the target area;

an energy source located at the proximal end of the insertion device; and

an energy transmitting device located at the distal end of the insertion device, wherein the energy transmitting device is communicably connected to the energy source through the insertion device, and wherein the energy transmitting device is configured for directing energy generated by the energy source to an area of tissue in the target area to heat the target area to a temperature greater than about 50° C.

89. (New) The device of claim 88, wherein the energy source generates electromagnetic energy.

90. (New) The device of claim 88, wherein the insertion device comprises an endoscope.

91. (New) The device of claim 88, wherein the insertion device comprises a catheter.

92. (New) The device of claim 88, wherein the material dissipates heat generated in the surface tissue to maintain a temperature below about 50° C in the surface tissue.

93. (New) The device of claim 88, wherein the expandable positioning structure comprises an inflatable balloon.

94. (New) The device of claim 88, wherein the energy transmitting device comprises a portion which extends radially away from the insertion device.